

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Mboll
Catalog Number:	R0148S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μg of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of 50 μl.
Lot Number:	10031382
Expiration Date:	12/2020
Storage Temperature:	-20°C
Storage Conditions:	250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.15% Triton X-100, 200 μg/ml BSA
Specification Version:	PS-R0148S/L v1.0

Mboll Component List					
NEB Part Number	Component Description	Lot Number	Individual QC Result		
R0148SVIAL	Mboll	10031383	Pass		
B7204SVIAL	CutSmart® Buffer	10021125	Pass		
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021132	Pass		

Assay Name/Specification	Lot # 10031382
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 5 units of MboII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda dam- DNA with Mboll, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Mboll.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of Lambda dam- DNA and a minimum of 5 Units of MboII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE)	Pass





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Assay Name/Specification	Lot # 10031382
Mboll is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	
detection.	

This product has been tested and shown to be in compliance with all specifications.

you

Tony Spear-Alfonso Production Scientist 14 Nov 2018

Michae MAN

Michael Tonello Packaging Quality Control Inspector 17 Dec 2018

